

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P652370

Luminaire Tested: **GALN-SA5B-840-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652370  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-840-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25134.9 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

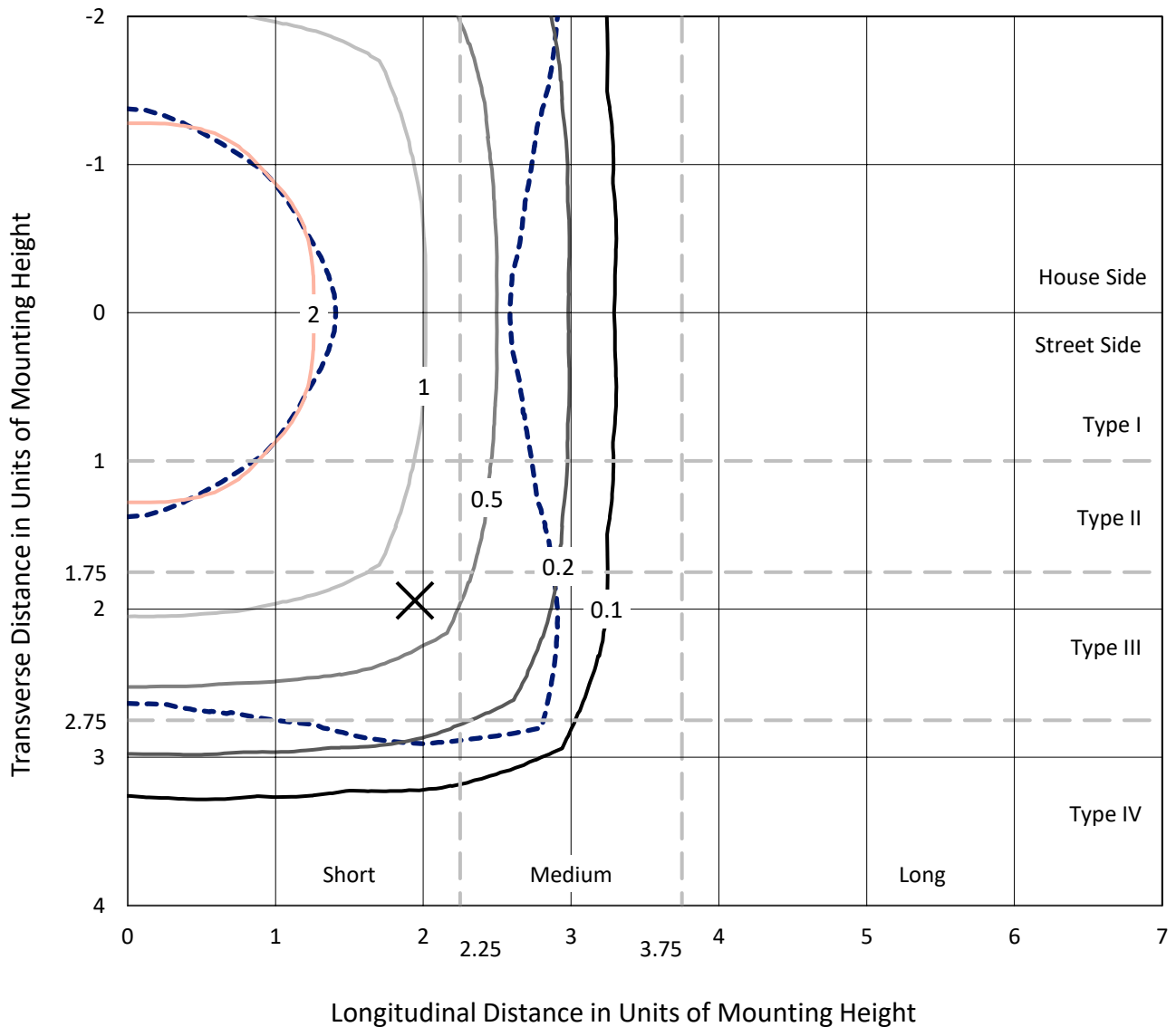
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

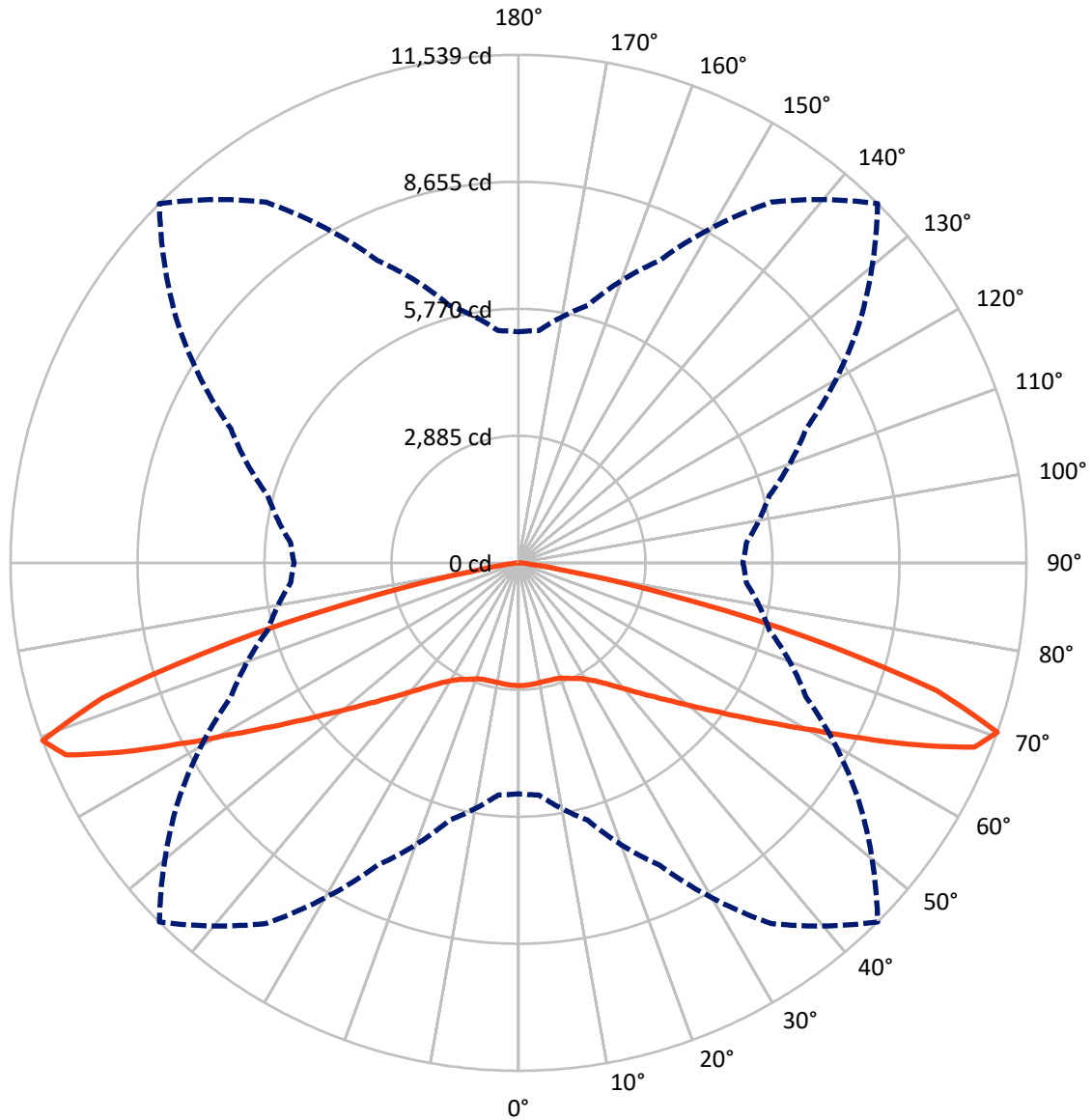
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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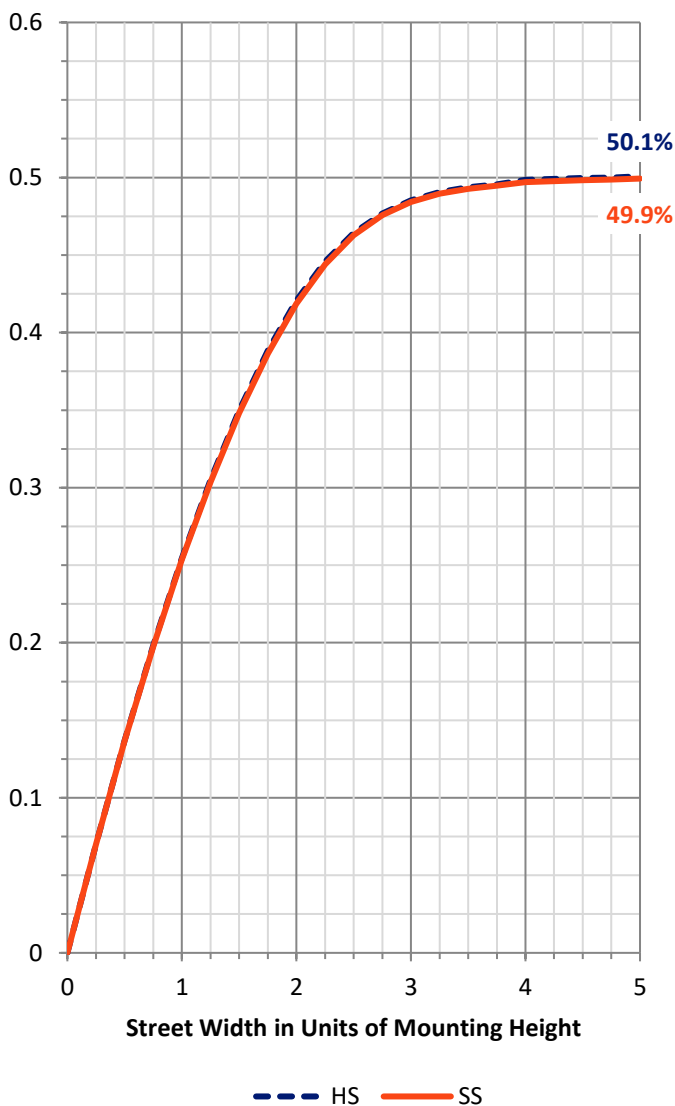
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12567.5  | 0.0    | 12567.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12567.5  | 0.0    | 12567.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 25134.9  | 0.0    | 25134.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 264.7   | 1.1       |
| 10°-20°   | 776.7   | 3.1       |
| 20°-30°   | 1328.4  | 5.3       |
| 30°-40°   | 2108.4  | 8.4       |
| 40°-50°   | 3401.4  | 13.5      |
| 50°-60°   | 5534.1  | 22.0      |
| 60°-70°   | 8022.5  | 31.9      |
| 70°-80°   | 3558.5  | 14.2      |
| 80°-90°   | 140.3   | 0.6       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 25134.9 | 100.0     |
| 0°-180°   | 25134.9 | 100.0     |

**Coefficient of Utilization**



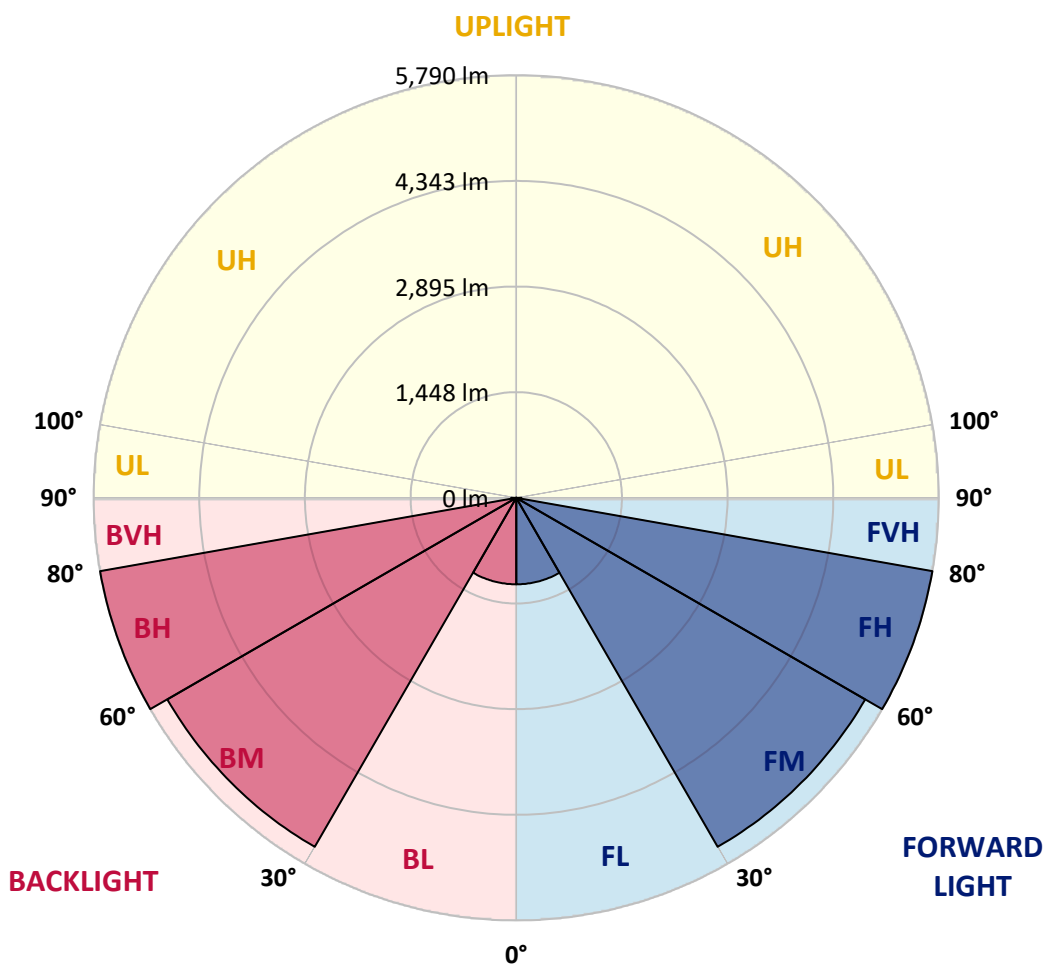
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1184.9 | 4.7       |                         |      |         |
| FM (30°-60°)   | 5521.9 | 22.0      |                         |      |         |
| FH (60°-80°)   | 5790.5 | 23.0      |                         |      | G3/7500 |
| FVH (80°-90°)  | 70.2   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 1184.9 | 4.7       | B3/2500                 |      |         |
| BM (30°-60°)   | 5521.9 | 22.0      | B4/8500                 |      |         |
| BH (60°-80°)   | 5790.5 | 23.0      | B5                      |      | G3/7500 |
| BVH (80°-90°)  | 70.2   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0°    | 2791.1 | 2791.1 | 2791.1 | 2791.1 | 2791.1  | 2791.1  | 2791.1 | 2791.1 | 2791.1 | 2791.1 | 2791.1 |
| 2.5°  | 2791.1 | 2793.8 | 2789.8 | 2787.2 | 2785.8  | 2785.8  | 2784.5 | 2785.8 | 2793.8 | 2795.1 | 2791.1 |
| 5°    | 2783.2 | 2785.8 | 2784.5 | 2781.9 | 2780.5  | 2780.5  | 2779.2 | 2777.9 | 2784.5 | 2787.2 | 2785.8 |
| 7.5°  | 2772.6 | 2773.9 | 2772.6 | 2771.3 | 2772.6  | 2771.3  | 2767.3 | 2764.6 | 2769.9 | 2769.9 | 2768.6 |
| 10°   | 2754.0 | 2756.7 | 2755.4 | 2756.7 | 2759.3  | 2759.3  | 2754.0 | 2748.7 | 2750.1 | 2747.4 | 2747.4 |
| 12.5° | 2731.5 | 2735.5 | 2736.8 | 2742.1 | 2748.7  | 2756.7  | 2744.8 | 2732.8 | 2730.2 | 2728.9 | 2727.5 |
| 15°   | 2716.9 | 2720.9 | 2726.2 | 2731.5 | 2743.4  | 2760.7  | 2743.4 | 2724.9 | 2719.6 | 2714.3 | 2711.6 |
| 17.5° | 2713.0 | 2718.3 | 2726.2 | 2734.2 | 2750.1  | 2767.3  | 2752.7 | 2734.2 | 2720.9 | 2713.0 | 2710.3 |
| 20°   | 2723.6 | 2727.5 | 2739.5 | 2754.0 | 2776.6  | 2793.8  | 2779.2 | 2759.3 | 2739.5 | 2727.5 | 2723.6 |
| 22.5° | 2744.8 | 2751.4 | 2766.0 | 2792.5 | 2824.2  | 2849.4  | 2829.5 | 2796.4 | 2764.6 | 2748.7 | 2743.4 |
| 25°   | 2791.1 | 2796.4 | 2813.6 | 2849.4 | 2886.5  | 2910.4  | 2889.2 | 2850.7 | 2807.0 | 2785.8 | 2779.2 |
| 27.5° | 2861.3 | 2869.2 | 2887.8 | 2930.2 | 2960.7  | 2973.9  | 2959.4 | 2932.8 | 2901.0 | 2878.6 | 2873.3 |
| 30°   | 2960.7 | 2970.0 | 2997.7 | 3042.8 | 3062.7  | 3070.7  | 3064.0 | 3046.8 | 3024.2 | 3000.4 | 2995.1 |
| 32.5° | 3094.5 | 3099.8 | 3131.5 | 3173.9 | 3192.5  | 3195.1  | 3187.2 | 3179.2 | 3142.1 | 3102.4 | 3099.8 |
| 35°   | 3244.2 | 3253.4 | 3291.8 | 3342.2 | 3359.4  | 3360.7  | 3344.8 | 3332.9 | 3289.2 | 3257.4 | 3257.4 |
| 37.5° | 3442.9 | 3446.8 | 3483.9 | 3540.9 | 3559.4  | 3554.2  | 3546.2 | 3535.6 | 3489.2 | 3448.2 | 3449.5 |
| 40°   | 3676.0 | 3684.0 | 3715.8 | 3782.0 | 3782.0  | 3775.3  | 3780.6 | 3772.7 | 3726.4 | 3686.6 | 3688.0 |
| 42.5° | 3952.9 | 3956.8 | 3995.3 | 4065.5 | 4060.2  | 4046.9  | 4052.2 | 4041.6 | 4012.5 | 3967.4 | 3951.5 |
| 45°   | 4248.3 | 4264.2 | 4330.4 | 4397.9 | 4387.3  | 4344.9  | 4366.1 | 4363.5 | 4337.0 | 4269.5 | 4273.5 |
| 47.5° | 4604.6 | 4631.1 | 4694.7 | 4775.5 | 4763.6  | 4697.3  | 4721.2 | 4737.1 | 4700.0 | 4625.8 | 4612.5 |
| 50°   | 5006.0 | 5023.2 | 5117.2 | 5192.8 | 5182.2  | 5111.9  | 5166.3 | 5169.0 | 5076.2 | 4971.6 | 4971.6 |
| 52.5° | 5433.9 | 5451.1 | 5578.3 | 5696.2 | 5702.8  | 5600.8  | 5644.5 | 5641.8 | 5490.8 | 5353.0 | 5326.6 |
| 55°   | 5913.4 | 5921.4 | 6085.6 | 6259.1 | 6296.2  | 6196.9  | 6202.2 | 6149.2 | 5953.2 | 5792.9 | 5778.3 |
| 57.5° | 6408.8 | 6438.0 | 6619.5 | 6844.6 | 6954.6  | 6893.7  | 6865.8 | 6724.1 | 6534.7 | 6350.6 | 6341.3 |
| 60°   | 6957.3 | 6958.6 | 7194.4 | 7460.7 | 7683.2  | 7724.2  | 7610.4 | 7420.9 | 7175.8 | 6932.1 | 6921.5 |
| 62.5° | 7337.5 | 7394.4 | 7692.5 | 8142.9 | 8541.6  | 8772.1  | 8471.4 | 8074.0 | 7591.8 | 7198.4 | 7158.6 |
| 65°   | 7415.6 | 7454.0 | 7908.4 | 8671.4 | 9486.1  | 9982.8  | 9287.4 | 8442.2 | 7619.6 | 7095.0 | 7068.5 |
| 67.5° | 6783.8 | 6824.8 | 7436.8 | 8607.8 | 10148.4 | 11167.1 | 9817.2 | 8264.8 | 7148.0 | 6498.9 | 6447.3 |
| 70°   | 5247.1 | 5293.4 | 6049.8 | 7577.2 | 10001.4 | 11539.4 | 9439.7 | 7209.0 | 5894.9 | 5194.1 | 5100.1 |
| 72.5° | 2789.8 | 2960.7 | 3607.1 | 5200.7 | 8117.7  | 9935.2  | 7740.1 | 5260.4 | 3801.8 | 3107.7 | 2983.2 |
| 75°   | 1018.7 | 1039.9 | 1400.2 | 2306.3 | 4722.6  | 6812.9  | 4904.0 | 2509.0 | 1442.6 | 1114.1 | 1057.1 |
| 77.5° | 421.3  | 419.9  | 461.0  | 696.8  | 1715.5  | 3489.2  | 1914.2 | 736.5  | 459.7  | 425.2  | 419.9  |
| 80°   | 249.0  | 249.0  | 274.3  | 290.1  | 451.7   | 1053.1  | 504.7  | 328.5  | 275.5  | 251.7  | 255.7  |
| 82.5° | 111.3  | 117.9  | 173.5  | 182.8  | 218.6   | 288.8   | 243.7  | 209.3  | 180.1  | 124.6  | 112.6  |
| 85°   | 61.0   | 53.0   | 91.4   | 95.4   | 104.6   | 107.3   | 115.2  | 114.0  | 104.6  | 61.0   | 62.2   |
| 87.5° | 11.9   | 14.5   | 26.5   | 19.8   | 22.5    | 19.8    | 26.5   | 37.1   | 38.4   | 21.2   | 17.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)